

ELECTRICAL BASIC REQUIREMENTS AND METHODS

PART 1 - GENERAL

1.01 RELATED REQUIREMENTS

- A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND LANDSCAPE ARCHITECTURAL SPECIFICATIONS, APPLY TO WORK IN THIS SECTION.
- B. REFER TO SPECIFICATIONS FOR THE OTHER VARIOUS TRADES AND MATERIALS AND BE THOROUGHLY FAMILIAR WITH ALL PROVISIONS REGARDING ELECTRICAL WORK.

2.01 DEFINITIONS

- A. PROVIDE: FURNISH, INSTALL AND CONNECT COMPLETE.
- B. THE DRAWINGS SHALL NOT BE CONSTRUED AS SHOP DRAWINGS. IN THE EVENT OF A POSSIBLE INTERFERENCE WITH PIPING OR EQUIPMENT OF ANOTHER TRADE, ITEMS REQUIRING SET GRADE AND ELEVATIONS SHALL HAVE PRECEDENCE OVER OTHER ITEMS. SHOULD ANY MAJOR INTERFERENCE DEVELOP, IMMEDIATELY NOTIFY THE ARCHITECT.
- C. REVIEW OF SHOP DRAWINGS: A SERVICE BY THE ARCHITECT/ENGINEER TO REDUCE THE POSSIBILITY OF MATERIALS BEING ORDERED WHICH DO NOT COMPLY WITH CONTRACT DOCUMENTS. THE ARCHITECT'S/ENGINEER'S REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DIMENSIONS OR COMPLIANCE WITH THE CONTRACT DOCUMENTS. WHEN AN ERROR IS NOT DETECTED, THIS DOES NOT GRANT THE CONTRACTOR PERMISSION TO PROCEED IN ERROR.
- D. WIRING: WIRE AND CABLE, INSTALLED IN RACEWAY WITH BOXES, FITTINGS, CONNECTORS AND SUPPORTS.
- E. WORK: MATERIALS COMPLETELY INSTALLED.

3.01 DRAWINGS AND SPECIFICATIONS

- A. THE ELECTRICAL DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT, OUTLETS, ETC.
- B. THE DRAWINGS AND SPECIFICATIONS SHALL BOTH BE CONSIDERED AS PART OF THE CONTRACT. ANY WORK OR MATERIAL SHOWN IN ONE AND OMITTED IN THE OTHER, OR WHICH MAY FAIRLY BE IMPLIED BY BOTH OR EITHER, SHALL BE PROVIDED IN ORDER TO GIVE A COMPLETE JOB.
- C. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL ASK FOR CLARIFICATION PRIOR TO DOING AND CONFLICTING WORK.
- D. REFER TO THE LANDSCAPE ARCHITECTURAL DETAILS FOR DIMENSIONS, AND FIT THE WORK TO CONFORM TO THE DETAILS OF CONSTRUCTION.

4.01 CODES AND REGULATIONS

- A. COMPLY WITH THE CURRENT ADOPTED VERSION OF THE FOLLOWING CODES, STANDARDS, REGULATIONS, AND LAWS:
 1. FLORIDA BUILDING CODE 8th EDITION 2023.
 2. NFPA 70 - NATIONAL ELECTRIC CODE 2020.*
 3. NFPA 101 - NATIONAL FIRE PROTECTION CODE LIFE SAFETY 2021.*
 4. FLORIDA ENERGY CONSERVATION CODE 8th EDITION 2023.
 5. FLORIDA ACCESSIBILITY CODE 8th EDITION 2023.
 6. OSHA REQUIREMENTS.
 7. ALL LOCAL CODES; CITY AND/OR COUNTY AS APPLICABLE.
 8. REGULATIONS OF ALL OTHER AUTHORITIES HAVING JURISDICTION.
 9. ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE.
 - * WITH LOCAL ADDENDA WHERE APPLICABLE.
- B. EQUIPMENT SHALL CONFORM TO REQUIREMENTS AND RECOMMENDATIONS OF THE NATIONAL BUREAU OF FIRE UNDERWRITERS AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- C. ITEMS PROVIDED UNDER THIS DIVISION SHALL COMPLY WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) "SPECIFICATIONS FOR MARKING BUILDINGS AND FACILITIES ACCESSIBLE TO AND USABLE BY PHYSICALLY HANDICAPPED PEOPLE," ANSI A 117.1, AND THE AMERICANS WITH DISABILITIES ACT (A.D.A.).
- D. WORK CALLED FOR IN THESE PLANS AND SPECIFICATIONS SHALL BE EXECUTED BY COMPETENT WORKMEN.
- E. THE DRAWINGS SHOW APPROXIMATE LOCATIONS ONLY OF FEEDERS, BRANCH CIRCUITS, OUTLETS, ETC., EXCEPT WHERE SPECIFIC ROUTING OR DIMENSIONS ARE INDICATED. THE ARCHITECT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS INDICATED, BEFORE ROUGHING-IN, WITHOUT ADDITIONAL COST TO THE OWNER.

5.01 FEES, PERMITS, AND TAXES

- A. OBTAIN AND PAY FOR PERMITS REQUIRED FOR THE WORK OF THIS DIVISION. PAY FEES IN CONNECTION THEREWITH, INCLUDING NECESSARY INSPECTION FEES.
- B. PAY ANY AND ALL TAXES LEVIED FOR WORK OF THIS DIVISION, INCLUDING MUNICIPAL AND/OR STATE SALES TAX WHERE APPLICABLE.

PART 2 - PRODUCTS

1.01 STANDARDS

- A. ALL MATERIAL SHALL BE NEW AND SHALL CONFORM TO THE APPLICABLE STANDARD OR STANDARDS WHERE SUCH HAVE BEEN ESTABLISHED FOR THE PARTICULAR MATERIAL IN QUESTION.
- B. MATERIAL OF THE SAME TYPE SHALL BE THE PRODUCT OF ONE MANUFACTURER.
- C. U.L. LISTED MATERIAL SHALL BEAR U.L. LABEL.

PART 3 - EXECUTION

1.01 VISIT TO SITE

- A. PRIOR TO SUBMITTING PROPOSAL, VISIT THE SITE AND BECOME FAMILIAR WITH THE CONDITIONS RELATING TO DIVISION 26 WORK.

B. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

2.01 TRENCHING AND BACKFILLING

- A. ALL TRENCHING, BACKFILLING AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH OTHER SECTIONS OF THESE SPECIFICATIONS.
- B. PROVIDE EXCAVATING AND BACKFILLING NECESSARY FOR ELECTRICAL WORK. COMPLY WITH SITE WORK, IF APPLICABLE.
- C. TRENCHES SHALL BE INSPECTED BY CODE AUTHORITIES AND/OR OWNER'S REPRESENTATIVE BEFORE AND AFTER PIPING IS LAID. GIVE OWNER REPRESENTATIVE 24-HOUR NOTICE FOR EACH INSPECTION. IF ANY TRENCHES ARE FILLED WITHOUT OWNER'S REPRESENTATIVE INSPECTION AND AS SUBSEQUENTLY FOUND TO BE DEFICIENT, THE TRENCHES SHALL BE UNCOVERED, INSPECTED, AND THEN REFILLED, IF REQUESTED BY OWNER'S REPRESENTATIVE.
- D. PROVIDE MINIMUM 24 INCHES OF COVER TO FINISH GRADES OR PAVING AT RACEWAYS.
- E. PROTECT AND MAINTAIN TRENCHES IN DRY CONDITION UNTIL PIPING HAS BEEN INSPECTED AND APPROVED IMMEDIATELY AFTER APPROVAL. BACKFILL TRENCHES IN TAMPED LAYERS. REPEAT BACKFILL AND TAMPING 6 MONTHS AFTER INITIAL COVERAGE HAS BEEN ACCOMPLISHED TO AVOID SWALE DEVELOPMENT FROM SINKING SOILS.
- F. COMPACT FILL TO SATISFACTION OF LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.
- G. TRENCH EXCAVATION IN EXCESS OF 5 FEET DEEP SHALL COMPLY WITH OSHA STANDARD 29 C.F.R.S. 1926.650 SUBPART P.

3.01 EXISTING CONDITIONS

- A. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS AND WILL BE HELD RESPONSIBLE FOR ALLOWING FOR THESE CONDITIONS IN HIS BID.
- B. NOTE THAT THIS AREA OF WORK WILL HAVE STORM DRAINAGE, MECHANICAL AND ELECTRICAL UTILITIES LOCATED UNDERGROUND AND WITHIN AND UNDER THE BUILDINGS. IT IS PART OF THIS WORK FOR THE ELECTRICAL CONTRACTOR TO DETERMINE THE SCOPE AND LOCATION OF ALL UTILITIES TO BE INSTALLED WITH THIS PROJECT AND ARRANGE HIS WORK AROUND OTHERS. THERE WILL BE NO EXTRA CONSIDERATION FOR WORK DISCOVERED AS BEING HIDDEN AFTER THE BID, AND NO CHANGE ORDERS FOR EXTRA COST THAT MAY BE CAUSED BY UNKNOWN AFTER BID CONDITIONS. THE DRAWINGS SHOW APPROXIMATE LOCATIONS ONLY OF FEEDERS, BRANCH CIRCUITS, OUTLETS, ETC., EXCEPT WHERE SPECIFIC ROUTING OR DIMENSIONS ARE INDICATED. THE ARCHITECT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS INDICATED, BEFORE ROUGHING-IN, WITHOUT ADDITIONAL COST TO THE OWNER.

4.01 PROTECTION OF APPARATUS

- A. THE ELECTRICAL CONTRACTOR SHALL TAKE PRECAUTIONS NECESSARY AT ALL TIMES TO PROPERLY PROTECT HIS APPARATUS FROM DAMAGE. FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH THE ABOVE TO THE ARCHITECT'S SATISFACTION SHALL BE SUFFICIENT CAUSE FOR THE REJECTION OF THE PARTICULAR PIECE OF APPARATUS IN QUESTION.

5.01 DELIVERY, HANDLING, PROTECTION OF MATERIALS AND STORAGE

- A. SHIP, DELIVER AND STORE PRODUCTS IN THE MANUFACTURER'S PROTECTIVE PACKING TO PREVENT DAMAGING.
- B. HANDLE EQUIPMENT CAREFULLY TO PREVENT DAMAGE TO COMPONENTS, BREAKAGE AND DENTING OR SCORING OF SURFACES AND FINISHES.
- C. STORE ALL EQUIPMENT AND PRODUCTS IN CLEAN, DRY SPACES. PROTECT ALL EQUIPMENT FROM DIRT, FUMES, WATER, CHEMICALS, CONSTRUCTION DEBRIS AND PHYSICAL DAMAGE. ANY EQUIPMENT EXPOSED DIRECTLY TO MOISTURE WILL NOT BE ACCEPTABLE AND SHALL BE REPLACED.
- D. REPLACE DAMAGED PRODUCTS AND EQUIPMENT. REPAIR AND REPAINT MARRED AND DAMAGED FINISHES TO ORIGINAL FACTORY FINISH AS DIRECTED BY MANUFACTURER AND AS HEREIN SPECIFIED.
- E. KEEP ALL CONDUIT AND OTHER OPENINGS PROTECTED AGAINST ENTRY OF FOREIGN MATTER.

6.01 COORDINATION

- A. PRIOR TO ROUGH-IN OF ANY MATERIALS, COORDINATE WITH OTHER SUBCONTRACTORS THE PHYSICAL CLEARANCES FOR THE SEQUENCING OF ELECTRICAL WORK AS IT INTERFACES WITH AND RELATES TO CIVIL, ARCHITECTURAL, STRUCTURAL, PLUMBING AND IRRIGATION.

7.01 CODES AND REGULATIONS

- A. IN THE EVENT OF A CONFLICT BETWEEN CODES, THE MORE RESTRICTIVE CODE SHALL APPLY.
- B. OTHER CODES AND REGULATIONS AS REFERENCED HEREIN AFTER IN THIS SPECIFICATION ARE APPLICABLE TO THIS SECTION.

8.01 STANDARDS FOR MATERIALS AND WORKMANSHIP

- A. USE MATERIALS THAT ARE NEW AND, WHERE U.L. HAS ESTABLISHED STANDARDS, U.L. LISTED AND LABELED.
- B. ORGANIZE AND EXECUTE WORK SO THAT FINISHED APPEARANCE IS NEAT; PLUMB WHEN VERTICAL AND LEVEL WHEN HORIZONTAL.

9.01 GUARANTEE

- A. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT. THIS GUARANTEE SHALL INCLUDE FURNISHING OF ALL LABOR AND MATERIAL NECESSARY TO MAKE ANY REPAIRS, ADJUSTMENTS OR REPLACEMENT OF ANY EQUIPMENT, PARTS, ETC. NECESSARY TO RESTORE THE PROJECT TO FIRST CLASS CONDITION. THIS GUARANTEE SHALL EXCLUDE ONLY THE CHANGING OF LAMPS. WARRANTIES EXCEEDING ONE (1) YEAR ARE HEREINAFTER SPECIFIED WITH INDIVIDUAL PIECES OF EQUIPMENT.
- B. IF THE CONTRACTOR'S OFFICE IS IN EXCESS OF A FIFTY (50) MILE RADIUS OF THE PROJECT, HE SHALL APPOINT A LOCAL QUALIFIED CONTRACTOR TO PERFORM ANY EMERGENCY REPAIRS OR ADJUSTMENTS REQUIRED DURING THE GUARANTEE PERIOD. THE NAME OF THE CONTRACTOR APPOINTED TO PROVIDE EMERGENCY SERVICES SHALL BE SUBMITTED TO THE ARCHITECT FOR HIS APPROVAL.

POWER AND WIRING DEVICE SYMBOLS			
	UTILITY TRANSFORMER		STEP-DOWN TRANSFORMER
	120/208V/240V PANELBOARD SURFACE MOUNT		AUTOMATIC TRANSFER SWITCH PLAN VIEW
	120/208V/240V PANELBOARD FLUSH MOUNT		GENERATOR ANNUNCIATOR PANEL
	277/480V PANELBOARD SURFACE MOUNT		MOTOR - SIZED AS INDICATED ON PLAN
	277/480V PANELBOARD SURFACE MOUNT		SHUNT TRIP
	DISCONNECT/SAFETY SWITCH NON-FUSED		ELECTRICAL CONNECTION
	DISCONNECT/SAFETY SWITCH FUSED		HAND HOLE
	CIRCUIT HOMERUN		TIME CLOCK CONTROLLER
	120V POWERED CLOCK LOCATION		120V POWERED CLOCK LOCATION

RECEPTACLE & JUNCTION BOX SYMBOLS				
WALL	ABOVE COUNTER	FLOOR OR GROUND	CEILING	DESCRIPTION
				120V DUPLEX RECEPTACLE
				120V DUPLEX RECEPTACLE GFI
				JUNCTION BOX

ELECTRICAL ABBREVIATIONS			
LISTED ALPHABETICALLY LISTED BY DESCRIPTION			
MARK	DESCRIPTION	MARK	DESCRIPTION
ABV	ABOVE	KWH	KILOWATT-HOUR
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT-AMPERE
ACL	ACROSS THE LINE	KO	KNOCKOUT
AC	ALTERNATING CURRENT	LTS	LIGHTING
A	AMPERE	LS	LOUD SPEAKER
AMP	AMPERE	LV	LOW VOLTAGE
AIC	AMPERES INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
AL	ALUMINUM	MH	MANHOLE
ATS	AUTOMATIC TRANSFER SWITCH	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MCC	MECHANICAL CONTRACTOR
BOD	BASIS OF DESIGN	MTR	MOTOR
BR	BRANCH	MCP	MOTOR CIRCUIT PROTECTOR
BKR	BREAKER	MCC	MOTOR CONTROL CENTER
BGB	BUILDING GROUND BOX	MTD	MOUNTED
CAB	CABINET	NEC	NATIONAL ELECTRICAL CODE
CATV	CABLE TELEVISION	NL	NIGHT LIGHT (ALWAYS ON)
CLG	CEILING	NC	NORMALLY CLOSED
C.B.	CIRCUIT BREAKER	NO	NORMALLY OPENED
CCT	CIRCUIT	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
COAX	COAXIAL	OCPPD	OVERCURRENT PROTECTION DEVICE
C.U.	COEFFICIENT OF UTILIZATION	PNL	PANEL
C	CONDUIT	PH	PHASE
CONT	CONTINUOUS	PT	POTENTIAL TRANSFORMER
CP	CONTROL PANEL	PWR	POWER
Cu	COPPER	PRI	PRIMARY
CUH	CABINET UNIT HEATER	PA	PUBLIC ADDRESS
CT	CURRENT TRANSFORMER	PB	PULL BOX
HZ	HERTZ (CYCLES/SECOND)	RT	RAINTIGHT
DED	DEDICATED CIRCUIT	RECEP	RECEPTACLE
DC	DIRECT CURRENT	RC	REMOTE CONTROL
DS	DISCONNECT SWITCH	R	RESISTANCE
DPDT	DOUBLE POLE DOUBLE THROW	SEC	SECONDARY
DPST	DOUBLE POLE SINGLE THROW	SC	SHORT CIRCUIT
ELEC	ELECTRIC	SP	SINGLE POLE
E.C.	ELECTRICAL CONTRACTOR	SPST	SINGLE POLE SINGLE THROW
EWC	ELECTRIC WATER COOLER	SPDT	SINGLE POLE DOUBLE THROW
EWB	ELECTRIC WATER HEATER	SPKR	SPEAKER
EM	EMERGENCY	SPEC	SPECIFICATION
EQ	EQUIPMENT	SS	STAINLESS STEEL
EUH	ELECTRIC UNIT HEATER	STA	STATION
EXSTG	EXISTING	SW	SWITCH
EP	EXPLOSION PROOF	SWBD	SWITCHBOARD
FPB	FAN POWERED BOX	SWGR	SWITCHGEAR
FA	FIRE ALARM	SYS	SYSTEM
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TC	TERMINAL CABINET
FACP	FIRE ALARM CONTROL PANEL	TEL	TELEPHONE
FDC	FIRE DEPARTMENT CONNECTION	TTC	TELEPHONE TERMINAL CABINET
FB	FLOORBOX	TV	TELEVISION
FLUOR	FLUORESCENT	XFMR	TRANSFORMER
FVNR	FULL VOLTAGE NON-REVERSING	TL	TWIST LOCK
F	FUSE	UL	UNDERWRITER'S LABORATORIES
FUT	FUTURE	UH	UNIT HEATER
G.C.	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
GEN	GENERATOR	VP	VAPORPROOF
GRD	GROUND	VT	VAPORTIGHT
GFI	GROUND FAULT INTERRUPTER	V	VOLT
GEC	GROUNDING ELECTRODE CONDUCTOR	VA	VOLT-AMPERE
HH	HAND HOLE	WT	WATERTIGHT
HV	HIGH VOLTAGE	W	WATT
HP	HORSE POWER	WP	WEATHERPROOF
INC	INCANDESCENT	XR	EXISTING TO BE REMOVED
IC	INTERRUPTING CAPACITY	XRL	EXISTING TO BE RELOCATED
IMC	INTERMEDIATE GRADE CONDUIT		
JB	JUNCTION BOX		
KW	KILOWATT		

DRAWING INDEX			
SHEET #	SHEET NAME	SUBMITTAL	DATE
E000	ELECTRICAL NOTES AND LEGENDS	PERMIT	03/03/26
E100	ELECTRICAL SITE PLAN	PERMIT	03/03/26
E101	ELECTRICAL PHOTOMETRICS	PERMIT	03/03/26
E201	ELECTRICAL RISER & DETAILS	PERMIT	03/03/26
E202	LIGHTING DETAILS	PERMIT	03/03/26

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ISSUANCE HISTORY	
03/03/26	FOR PERMIT

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY KRISTA MARIE TAYLOR, P.E. ON

NO. 93024

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KRISTA M. TAYLOR
FLORIDA PE #93024

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E000

ELECTRICAL NOTES & LEGENDS

PROJECT NUMBER: TT26-005

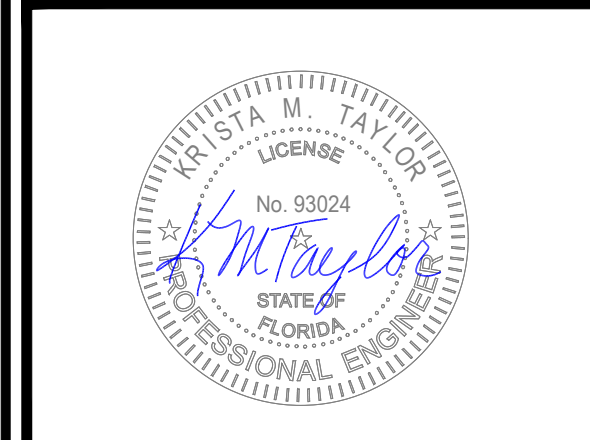
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E100
 ELECTRICAL SITE PLAN

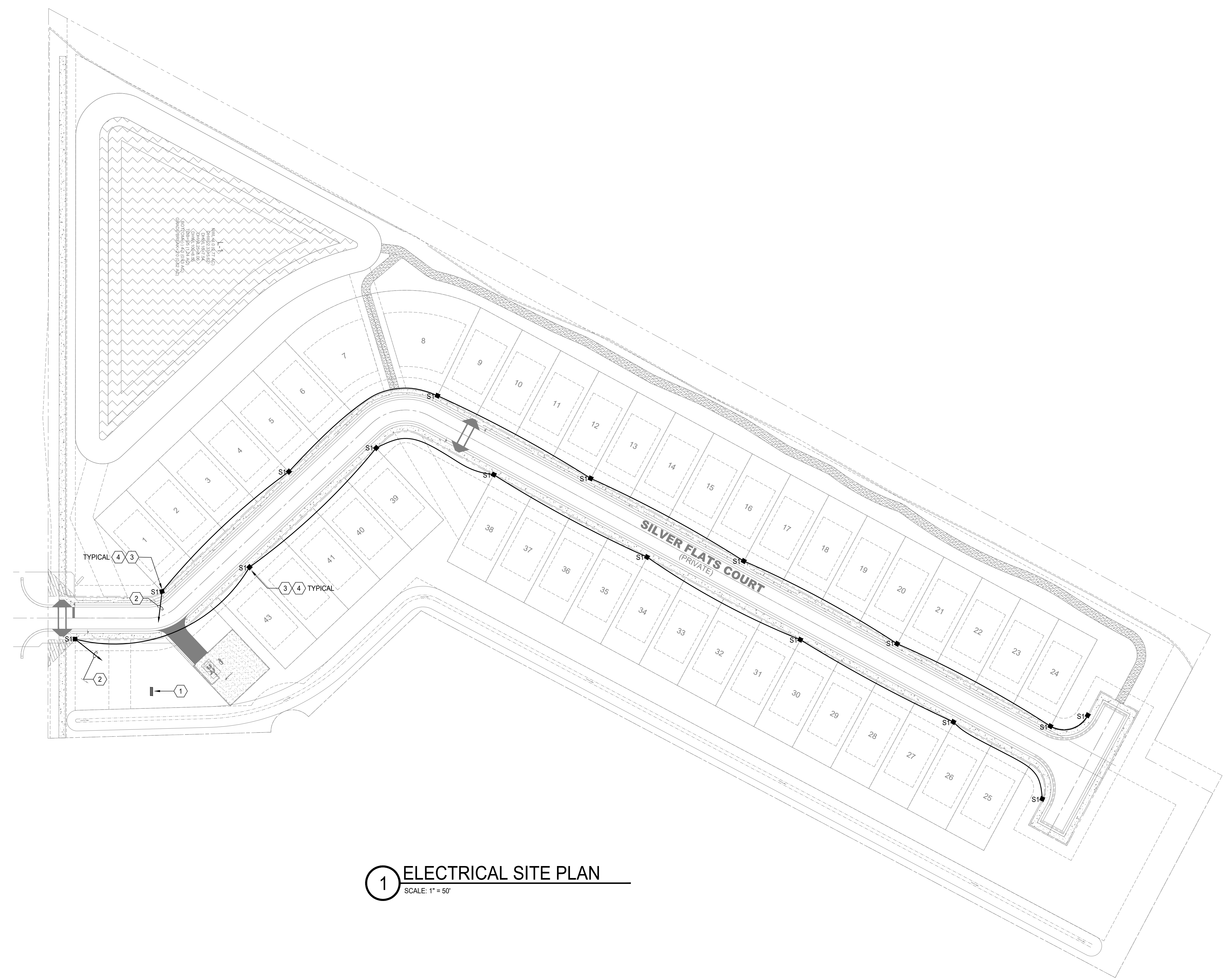
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GENERAL NOTES

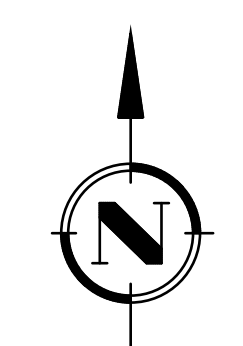
- A. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF NFPA 70 - THE NATIONAL ELECTRICAL CODE, AS WELL AS STATE AND LOCAL AMENDMENTS, AND AHJ LOCAL REQUIREMENTS.
- B. CONTACT LOCAL UTILITY FOR PROJECT REQUIREMENTS PRIOR TO INSTALLATION OF ANY ELECTRICAL SERVICE(S) OR RENOVATIONS AFFECTING ELECTRICAL SERVICE(S).
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN.
- E. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS AS GRAPHIC REPRODUCTIONS ARE NOT ALWAYS PRINTED TO SCALE.

REFERENCE NOTES

- ① PROPOSED PANEL EP AND LIGHTING CONTACTOR. SEE DETAILS AND DIAGRAM SHEET E201 FOR MORE INFORMATION.
- ② CONDUIT AND WIRING TO PANEL EP.
- ③ FIXTURE TYPE S1 (TYPICAL) - NEW 240V POLE LIGHT WITH SINGLE HEAD LED MOUNTED 14' ABOVE FINISHED GRADE. SEE SHEETS E201 AND E202 FOR DETAILS.
- ④ PROVIDE INGROUND WEATHERPROOF HANDHOLE AT EACH POLE LIGHT.



1 ELECTRICAL SITE PLAN
 SCALE: 1" = 50'



CALCULATION SUMMARY

CALC ZONE	DESCRIPTION	PARAMETER	MINIMUM (FC)	MAXIMUM (FC)	AVERAGE (FC)	MEAN/MIN RATIO	MAX/MIN RATIO
Z1	PEDESTRIAN WALK	PERPENDICULAR ILLUMINANCE	0.20	2.70	0.58	2.90	13.50

NOTES:
1. CALCULATION POINTS ARE SHOWN FOR ENTIRE SITE; HOWEVER, ZONE 1 (Z1) IS CALCULATED FOR PEDESTRIAN WALKWAY ONLY.

GENERAL NOTES

- A. THE PURPOSE OF THIS DRAWING IS TO SHOW LIGHTING PHOTOMETRIC CALCULATIONS. REFER TO SITE ELECTRICAL POWER AND/OR LIGHTING PLANS FOR CIRCUITING AND CONTROLS OF FIXTURES.
- B. THE PURPOSE OF THIS DRAWING IS TO SHOW LIGHTING POWER SOURCE, LIGHTING PHOTOMETRIC CALCULATIONS, AND LIGHTING CONTROLS.
- C. LIGHTING CONTROLS SHALL MEET THE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE FLORIDA ENERGY CONSERVATION CODE AS WELL AS ORANGE COUNTY CHAPTER 9 BUILDING AND CONSTRUCTION REGULATIONS / THE LOCAL AHJ'S SITE LIGHTING CONSTRUCTION REGULATIONS.
- D. FOOTCANDLE LEVELS SHOWN ARE INDICATIVE OF CALCULATED, PROBABLE PERFORMANCE, BUT ARE SUBJECT TO DIFFERENCES BETWEEN CALCULATED AND INSTALLED LUMINAIRE PHOTOMETRY, VARIATIONS OF THE INSTALLED CONDITIONS AND LANDSCAPE AS COMPARED TO THE CONTROLLED CALCULATION ENVIRONMENT, AND DEGREE OF ACCURACY OF ARCHITECTURAL SURFACES AND/OR REFLECTANCES REPRESENTED IN THE CALCULATION MODEL.

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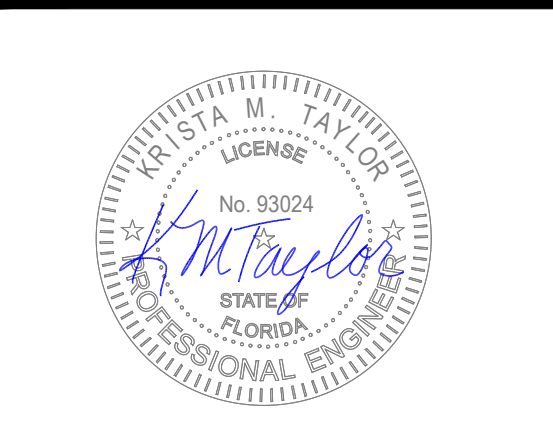
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03/03/26	FOR PERMIT

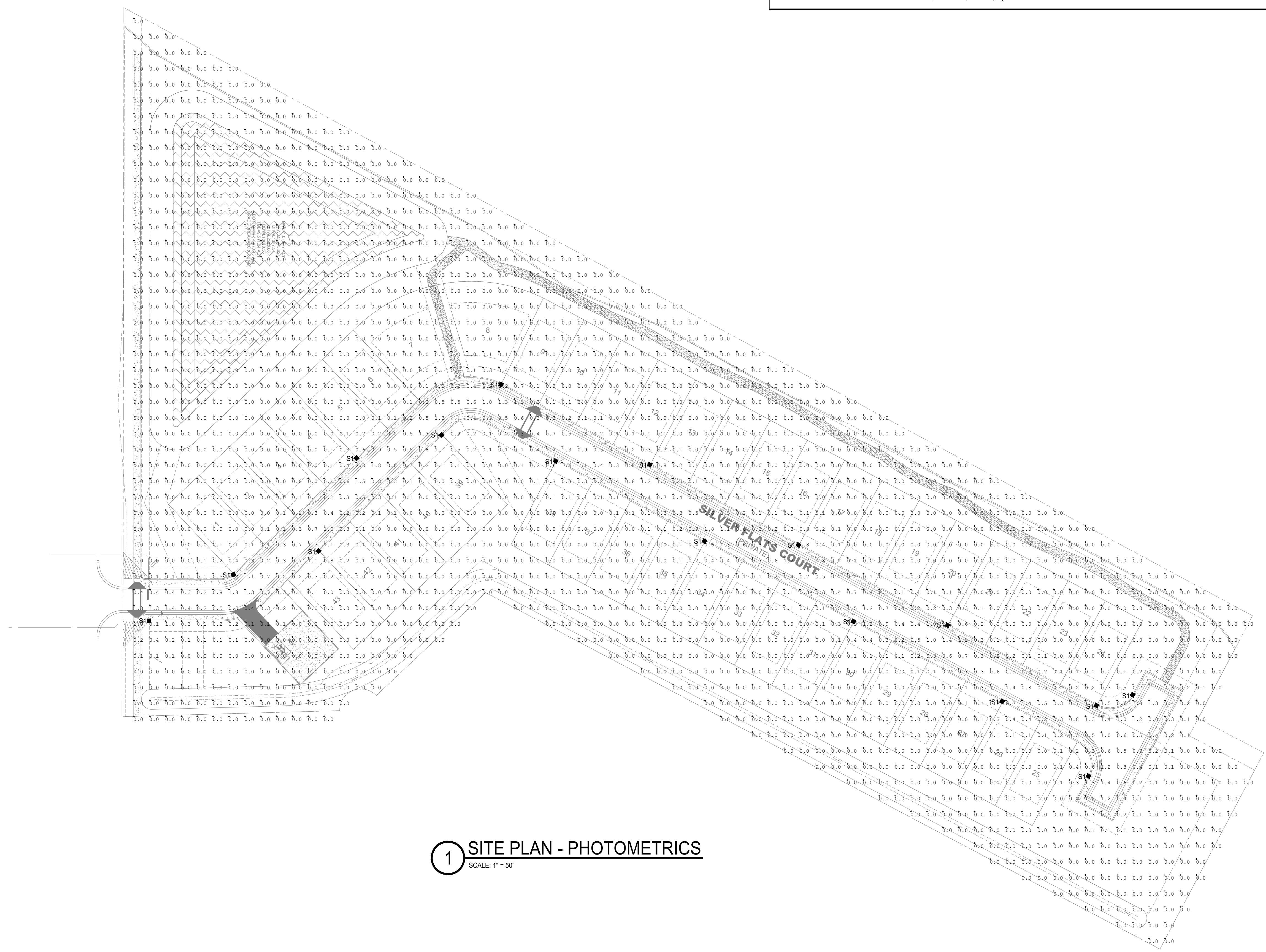


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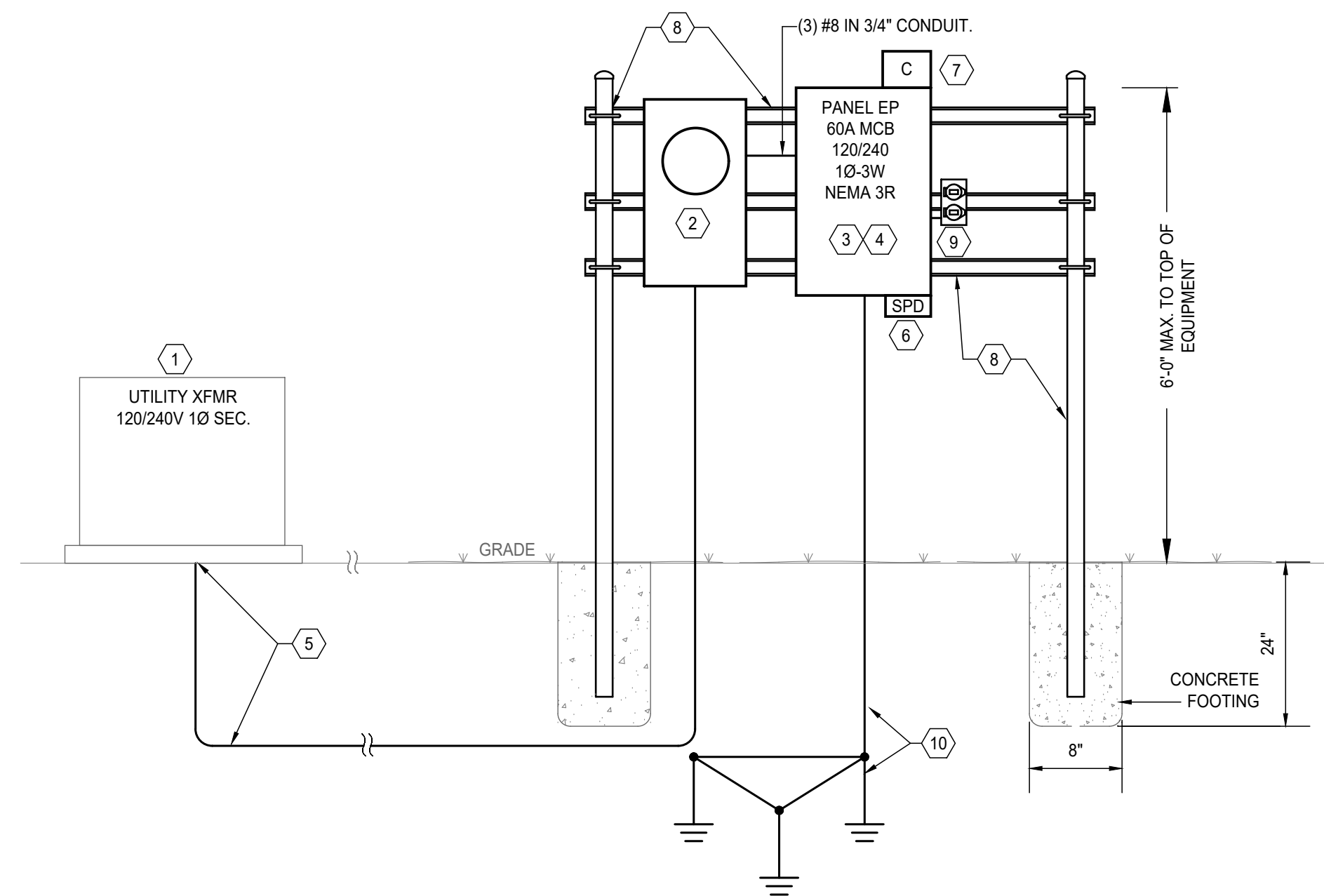
E101

SITE PLAN
PHOTOMETRICS

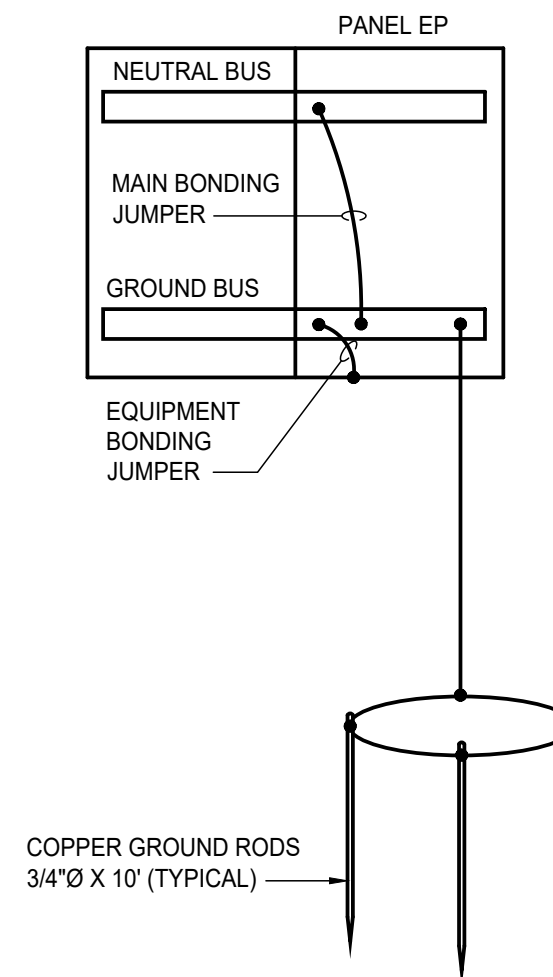
PROJECT NUMBER: TT26-005



1 SITE PLAN - PHOTOMETRICS
SCALE: 1" = 50'

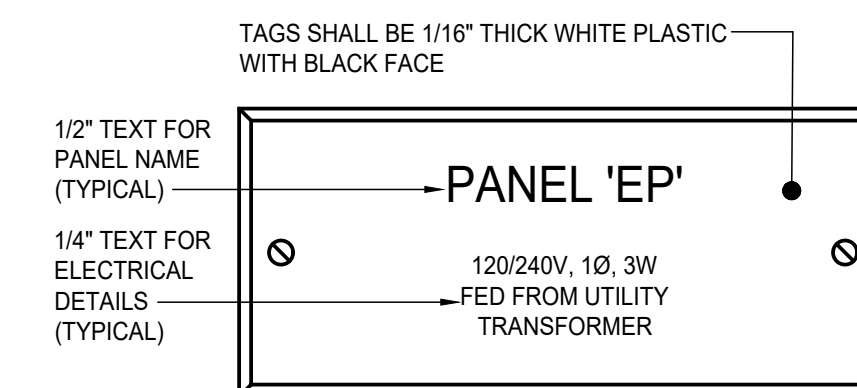


1 POWER RISER DIAGRAM
NOT TO SCALE



2 TYPICAL DISTRIBUTION SERVICE GROUNDING
NOT TO SCALE

PANEL EP																	
LOCATION: SITE		VOLTAGE: 240/120V		MIN. AIC RATING:		NOTES: PROVIDE TYPE WRITTEN DIRECTORY.											
TYPE: SQUARE D LOAD CENTER		OCB: 60A MCB		MOUNTING: SURFACE		PROVIDE GROUND & NEUTRAL BUS.											
FED FROM: UTILITY TRANSFORMER		LUGS:		SUB-FEED		FEED-THRU		ENCLOSURE: NEMA 3R		CIRCUIT DESCRIPTION							
CCT#	CIRCUIT DESCRIPTION	CCT#	BRANCH CIRCUIT			BKR	LOAD KVA	PHASE	BRANCH CIRCUIT				CCT#				
			NEUT	GND	COND				NEUT	GND	COND	COND					
1	PEDESTRIAN LIGHTING	1	10	10	10	1	202	0.17	A	0.18	20/1	12	12	12	0.75	RECEPTACLE AT PANEL	2
3	PEDESTRIAN LIGHTING	1	10	-	-	1	202	0.17	B	0.18	20/1	12	12	12	0.75	CIRCUIT FOR LIGHTING CTRL CONTACTOR	4
5	PEDESTRIAN LIGHTING	1	10	10	10	1	202	0.17	A	0.00	-	-	-	-	-	SPARE	6
7	PEDESTRIAN LIGHTING	1	10	-	-	1	202	0.17	B	0.00	-	-	-	-	-	SPACE	8
9	SURGE PROTECTION DEVICE		12	12	12		202	0.00	A	0.00	-	-	-	-	-	SPACE	10
11	SURGE PROTECTION DEVICE		12	-	-		202	0.00	B	0.00	-	-	-	-	-	SPACE	12
LOAD TYPES:		CONN. LOAD		L.F.		D.F.		DEMAND LOAD									
LIGHTING		0.87 KVA		125%		1.09 KVA											
RECEPTACLES - GENERAL		0.18 KVA		100%		0.18 KVA		TOTAL CONNECTED LOAD				1.05 KVA					
EQUIPMENT		0.00 KVA		100%		0.00 KVA		TOTAL DEMAND LOAD				1.27 KVA					
HVAC		0.00 KVA		100%		0.00 KVA											
SUBPANEL(S)		0.00 KVA		100%		0.00 KVA											
HEAT OR EV CHARGERS		0.00 KVA		125%		0.00 KVA											
NOTES:		1. CONNECT CIRCUIT VIA CONTACTOR 'LC1'.															
						TOTAL DEMAND AMPS ==>		5.27 AMPS									



3 ENGRAVED EQUIPMENT LABELING
NOT TO SCALE

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF NFPA 70 - THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL, STATE AND LOCAL CODES.
- COORDINATE ALL ELECTRICAL SERVICE WORK WITH LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN.
- PROVIDE GROUNDING AND BONDING FOR ALL SYSTEMS PER NEC 250.
- ALL DISTRIBUTION EQUIPMENT AND EACH OVER CURRENT DEVICE SHALL BE RATED FOR THE AVAILABLE FAULT CURRENT PRESENT AT THE LINE SIDE TERMINALS OF THE DEVICE. SERIES RATED DEVICES AND EQUIPMENT IS NOT ACCEPTABLE.
- UNLESS OTHERWISE NOTED, PANELBOARDS AND/OR LOAD CENTERS SHALL BE PROVIDED WITH COPPER BUSES.
- FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
- ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- FEEDERS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% OF MAXIMUM POTENTIAL LOAD. BRANCH CIRCUITS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% OF MAXIMUM POTENTIAL LOAD. WHEN FINAL FEEDER ROUTE IS ESTABLISHED, E.C. SHALL CONFIRM VOLTAGE DROP HAS BEEN ACCOMMODATED BY INCREASING FEEDER SIZES IF OR AS REQUIRED.
- FOR LARGE VOLTAGE DROPS WHERE EQUIPMENT IS UNABLE TO ACCOMMODATE UPSIZED CONDUCTORS, PROVIDE LUG KITS AS REQUIRED. WHERE LUG KITS ARE UNABLE TO ACCOMMODATE UPSIZED CONDUCTORS, SPLICE AND TRANSITION TO A SMALLER CONDUCTOR SIZE AT THE POINT OF TERMINATION VIA AN AUXILIARY GUTTER, PULL BOX, WIREWAY, OR OTHER SUITABLE DEVICE.
- MC CABLE: NO FEEDERS INCOMING TO OR OUTGOING FROM PANELS SHALL BE FLEXIBLE CONDUIT. NO MC CABLE SHALL BE USED AS PENETRANTS THROUGH FIRE/RATED BARRIERS. MC CABLE SHALL ONLY BE USED FOR SHORT RUNS AND EQUIPMENT CONNECTIONS.
- PER NEC 110.16 CONTRACTOR SHALL PROVIDE "ARC FLASH/SHOCK HAZARD" SIGNAGE FOR ALL PANELBOARDS AS REQUIRED PER ANSI, NEC, OSHA AND NFPA. INCLUDE ALL INFORMATION PER LATEST REQUIREMENTS INCLUDING REQUIRED LEVEL OF PPE, AVAILABLE FAULT CURRENT, APPROACH BOUNDARIES, ETC.
- PER NEC 110.24 SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED WHEN MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR THAT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE. THE MAXIMUM AVAILABLE FAULT CURRENT SHALL BE VERIFIED OR RECALCULATED AS NECESSARY TO ENSURE THE SERVICE EQUIPMENT RATINGS ARE SUFFICIENT FOR THE MAXIMUM AVAILABLE FAULT CURRENT AT THE LINE TERMINALS OF THE EQUIPMENT. THE REQUIRED FIELD MARKING(S) IN 110.24(A) SHALL BE ADJUSTED TO REFLECT THE NEW LEVEL OF MAXIMUM AVAILABLE FAULT CURRENT.
- KAIC RATINGS SHOWN IN PANEL SCHEDULES ARE BASED ON ASSUMED UTILITY SERVICE TRANSFORMER SIZE AND TYPICAL % IMPEDANCE. ELECTRICAL CONTRACTOR SHALL OBTAIN AN AVAILABLE FAULT CURRENT LETTER FROM LOCAL UTILITY COMPANY AND CONFIRM THAT KAIC RATINGS ARE SUFFICIENT BASED ON THIS DATA WHEN IT IS AVAILABLE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE NEW ENGRAVED TAGS FOR ALL PANELS AND EQUIPMENT. REFER TO DETAIL.
- ELECTRICAL CONTRACTOR SHALL PROVIDE NEW, ACCURATELY UPDATED TYPED CIRCUIT INDEX CARDS FOR ALL PANELS/LOAD CENTERS, AND ANY OTHER METHODS OF LABELING CIRCUITS SHALL BE REMOVED.
- ELECTRICAL CONTRACTOR SHALL INSTALL FILLERS IN ALL EMPTY BREAKER SPACES. NO PANELS SHALL BE LEFT WITH OPEN SPACES AT AVAILABLE POLE POSITIONS.
- DESIGN ATTEMPTS TO BALANCE LOADS SUCH ALL PHASES ARE LOADED WITHIN 10% OF EACH OTHER. ELECTRICAL CONTRACTOR SHALL MAINTAIN THIS BALANCE WHEN ALTERING BREAKER LOCATIONS FROM THE DESIGN.

RISER DIAGRAM PLAN NOTES

- UTILITY COMPANY TRANSFORMER. CONTRACTOR SHALL VERIFY EXACT LOCATION WITH OWNER AND ELECTRIC UTILITY. TRANSFORMER SIZE IS ESTIMATED AND AVAILABLE FAULT CURRENT DATA IS OBTAINED FROM ELECTRIC UTILITY PUBLISHED INFORMATION.
- COORDINATE INSTALLATION REQUIREMENTS FOR METER WITH ELECTRIC UTILITY.
- 12-CIRCUIT 120/240V-1PHASE 3-WIRE 60A MAIN CIRCUIT BREAKER LOAD CENTER NEMA 3R.
- CONTRACTOR SHALL COORDINATE EXACT SERVICE LOCATION AND REQUIREMENTS WITH UTILITY. PROVIDE TRENCHING, BACKFILL, CONDUIT, SECONDARY CONDUCTORS AND CONNECTION TO UTILITY TRANSFORMER.
- PROVIDE (3) #8 IN 3/4" SCHED. 80 CONDUIT TO NEW SERVICE LOCATION TRANSITION TO GALVANIZED METAL CONDUIT PRIOR TO GRADE LEVEL PER NEC 300.5. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO START OF WORK.
- PROVIDE SURGE PROTECTION DEVICE EQUAL TO PO PROTECTION #PQC50-120/240. INSTALL PER MANUFACTURERS RECOMMENDATIONS KEEPING LEAD LENGTHS TO A MINIMUM.
- LIGHTING CONTROL CONTACTOR SHALL BE 120V INPUT. (4) RELAY, ASTRONOMIC, PROGRAMMABLE TIMECLOCK/RELAY PANEL. COORDINATE HOURS OF OPERATION WITH THE OWNER TO SET TIME CLOCK SCHEDULE. PROVIDE IN NEMA 3R ENCLOSURE. CIRCUITRY SHALL BE CONTROLLED VIA PHOTOCELL "ON" / TIMECLOCK "OFF". PROVIDE PHOTOCELL COMPATIBLE WITH LIGHTING CONTACTOR.
- PROVIDE STEEL CHANNEL SUPPORT RACK FOR ELECTRICAL EQUIPMENT. POSTS MUST BE SPACED TO PROVIDE STABLE MOUNTING FOR EQUIPMENT. RACK CROSS-MEMBERS AND HARDWARE MUST BE STAINLESS STEEL FOR MOUNTING OF THE ELECTRICAL ENCLOSURES. EXTERIOR UNITS SHALL BE THOROUGHLY INSPECTED AFTER INSTALLATION.
- PROVIDE 120V DUPLEX GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE WITH LOCKABLE IN-USE COVER.
- PROVIDE #6 CU GROUND IN 1" CONDUIT TO 5/8"x30" CU CLAD GROUND THREE POINT GROUND TRIAD.

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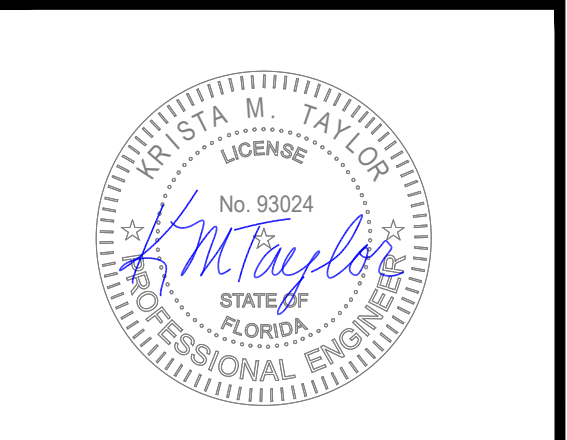
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ISSUANCE HISTORY	
03/03/26	FOR PERMIT



DRAWN BY: RST

CHECKED BY: KMT

E201

ELECTRICAL RISER DIAGRAM

PROJECT NUMBER: TT26-005

PROVIDENCE®



FEATURES

- The Providence family is scaled in three sizes of luminaires and also includes a matching bollard
- Utilizes Strike Optics for precise distributions, maximum fixture spacing and minimal backlight.
- Type 2, 3, 4, and 5 distributions
- Post top, arm mount and wall mount configurations
- Lumen outputs ranging from 100lm to 3200lm
- 3000K, 4000K, and 5000K
- 70, 80 and 90 CRI
- Decorative brass options
- SCP pole mounted occupancy sensor for integrated controls capabilities



SPECIFICATIONS

CONSTRUCTION

- All housing components aluminum 380 alloy, sealed with continuous silicone rubber gaskets
- All internal and external hardware is stainless steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, tri(cyclo)isocyanurate (TIGIC) polyester powdercoat
- Optical bezel finish is match the luminaire housing

LEDOPTICS

- LEDs are mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features
- Cartridge is easily disassembled to replace components. Optics are held in place without the use of adhesives
- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TR optical designs
- Standard and Clear Lens options except any Type 5 distribution.

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury
- The fixture shall slip over a 3/75mm open top pole or 4/100mm pole mounted arm and secured and leveled with 3 stainless steel set screws

ELECTRICAL

- Luminaires have integral surge protection, UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J
- Drivers are UL recognized with an inrush current maximum of 20.0A maximum at 230VAC
- 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control
- Driver and surge suppressor are mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

	WEIGHT	EPA
PROS	9 lbs / 4 kg	0.46

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 2500-08 for wet locations

WARRANTY

- 5 year warranty

ORDERING GUIDE

Example: PROS-Y3-25-27K-WMA59D-BLS-BPS

CATALOG # PROS-Y4-43-4K7-BLT

HOUSING

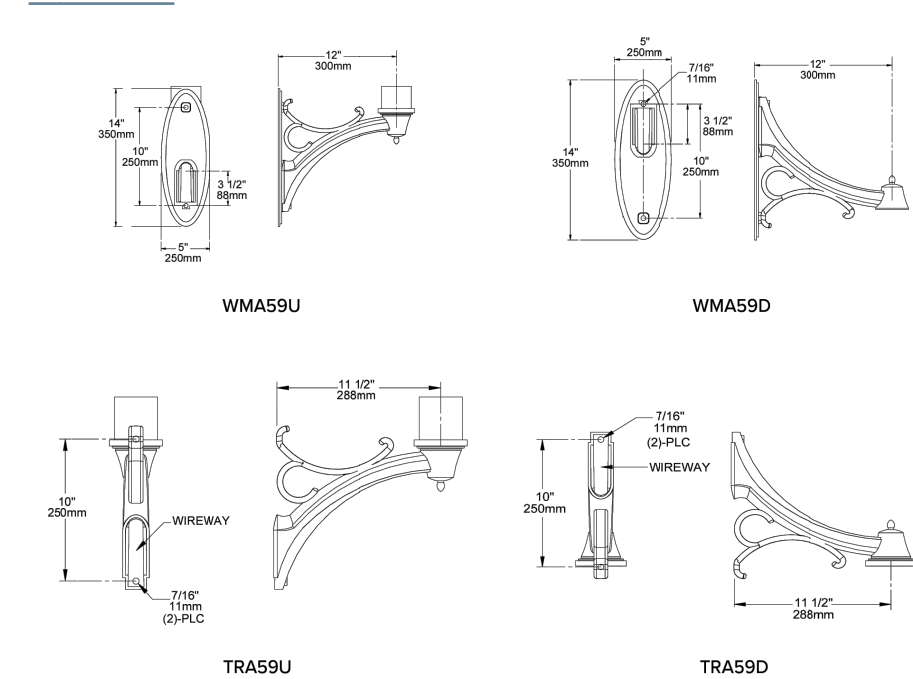
Housing	Distribution	Watts	CRY/CR	Mounting	Finish	Options	
PROS Providence Small LED	Y2 Type I Y3 Type II Y4 Type III Y5 Type IV	25 43 43 43	2700 3000 4000 5000	2700K RCOR 3000K RCOR 4000K RCOR 5000K RCOR	Standard Mount Slips over a 3/75mm pole or may choose one Wall Mount WMA59D Mount down WMA69U Mount up Post Mount Side Mount (Side mounts to a 4" O.D. pole) TRA59U Mount down TRA59D Mount up	BLS Black Gloss Smooth BLT Black Matte Textured DBS Dark Bronze Gloss Smooth DBT Dark Bronze Matte Textured GTT Graphite Matte Textured LGS Light Gray Gloss Smooth LGT Light Gray Matte Textured PSS Platinum Silver Gloss Smooth VGT Verde Green Matte Textured WHB White Gloss Smooth WHT White Matte Textured Color Options CC Custom Color CLA-A1 Clear Anodize	DF Single Fuse (UL 277, 347) DF Double Fuse (208, 240, 480) PFN Brass Painted Finish SPK Clear Spoke Painted Same As Fixture BPS Brass Painted Brush LDA LIGHT DIFFUSION ADA Adapter used only with standard 1/4" arm and post top mount fixtures to slip over a 4/100mm O.D. pole

Current Control Solutions - Accessories (Sold Separately)

- SCP Sensor Control Programmable (See product page)

File accessory is available to provide occupancy detection for outdoor applications meeting California Title 24. For additional information please visit: currentlighting.com. Options provided for use with integrated sensor. Please view specification sheet ordering information table for details.

MOUNTING



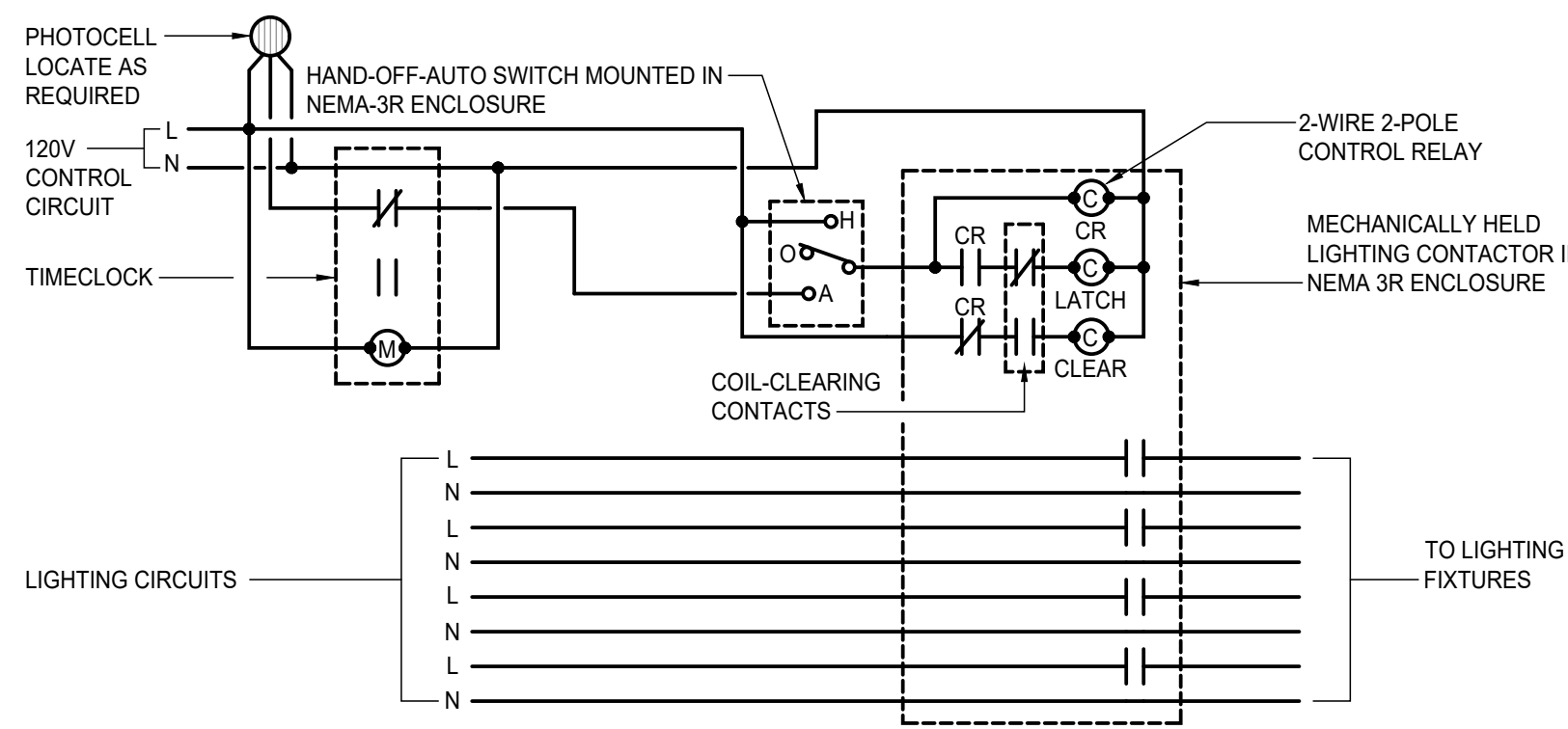
1 **FIXTURE TYPE S1**
NOT TO SCALE

SITE LIGHTING FIXTURE SCHEDULE

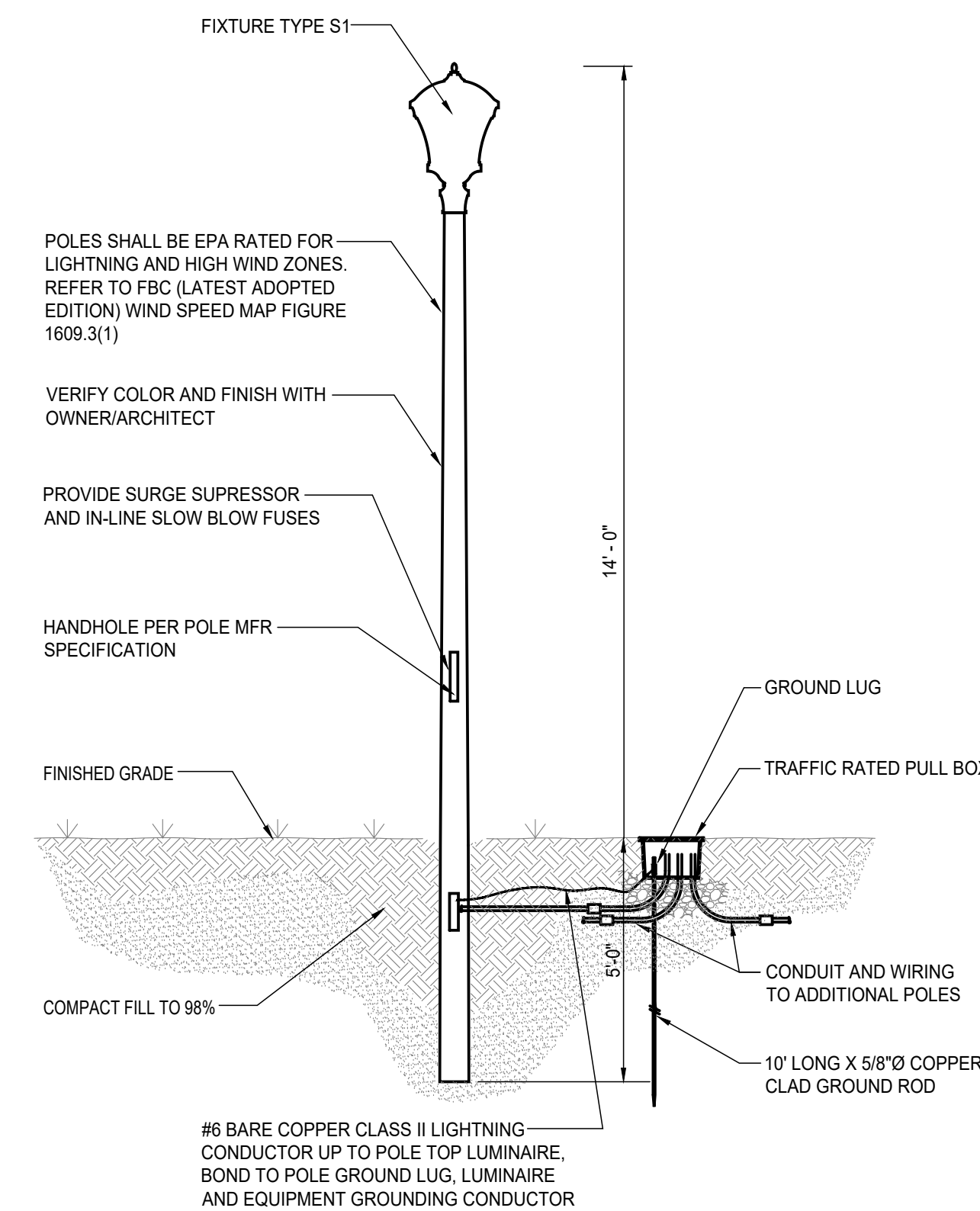
MARK	SYMBOL	DESCRIPTION	QTY	MANUFACTURER	MODEL	VOLTAGE	MOUNTING HEIGHT (FT)	COLOR TEMP	LAMP TYPE/MODEL	LUMINOUS FLUX (lm)	LLF (%)	LAMP WATTS	#HEADS	FIXTURE WATTS	NOTES
S1		POST TOP MOUNTED AREA LIGHTING TYPE 4 DISTRIBUTION WITH - 14' POLE	16	ARCHITECTURAL AREA LIGHTING	FIXTURE: PROS-Y4-43-4K7-BLT POLE: ARCHITECTURAL AREA LIGHTING #DB14R14125 BLT ND	240	14	4000	LED	3,262	95	43	1	43	1-9

NOTES:

- ALL FIXTURES AND FINISHES SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO ORDERING.
- ALL FIXTURES SHALL INCLUDE LAMPS.
- LIGHTING MANUFACTURER SHALL PROVIDE ALL REQUIRED HARDWARE AND INSTALLATION INSTRUCTIONS.
- FIXTURES SHALL BE COMMERCIAL GRADE AND CONSTRUCTED OF NON-CORROSIVE MATERIALS.
- FIXTURES SHALL BE U.L. LISTED.
- BASIC CONTROLS SHALL BE PHOTOCELL ON, TIMER OFF PER LIGHTING CONTROLS DETAIL.
- WHERE POLE LIGHTS ARE 24' OR LESS AFG INCLUDE BI-LEVEL OCC SENSOR CONTROL OPTION TO MEET FLORIDA ENERGY CODE 2023, SECTION C405.2.7.3(2) (EXTERIOR LIGHTING SETBACK) CONTROLS.
- DIRECT BURIAL POLE SHALL BE RATED TO MEET THE REQUIREMENTS OF THE FLORIDA WIND LOAD MAP IN FLORIDA BUILDING CODE 2020, SECTION 1609.
- FOR PRODUCT ASSISTANCE AND QUOTES, CONTACT KAITLYN TERRY AT FLORIDA LIGHTING ASSOCIATES - 407-780-8022 (KaitlynT@FloridaLightingAssociates.com).



2 **PHOTO CELL WITH TIMECLOCK CONTROLLER DETAIL**
NOT TO SCALE



3 **POLE BASE DETAIL**
NOT TO SCALE

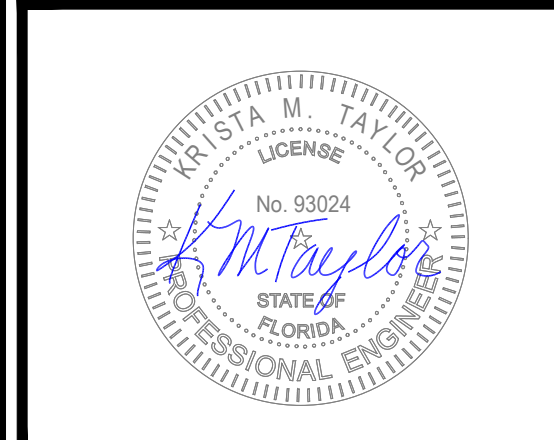
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CHECKED BY: KMT

E202
LIGHTING
DETAILS

PROJECT NUMBER: TT26-005